732250-190\Robert Finberg DECLARATION.doc

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Knipe, et al.

Serial No.

08/278,601

Filed

July 21, 1994

For

Herpesvirus Replication Defective Mutants

Group

1645

Examiner

Caputa, A.

Assistant Commissioner of Patents Washington, D.C. 20231

DECLARATION UNDER 37 C.F.R.§1.608(b)

I, Robert Finberg, declare:

- That prior to September 25, 1990, experiments were performed in my laboratory at the 1. Dana Farber Cancer Institute with my knowledge, at the request of and on behalf of David Knipe, a named inventor of the above-captioned application. My curriculum vitae is attached hereto as Appendix A.
- That the experiments were performed prior to September 25, 1990 by Lien Huong 2. Nguyen who was employed as a post doctorate in my laboratory at the Dana Farber Cancer Institute. Dr. Nguyen is no longer employed by the Dana Farber Cancer Institute.
- That the following is a factual description of experiments performed by Dr. Nguyen in 3. the United States prior to September 25, 1990.
- 4. That Dr. Nguyen was requested to perform these experiments by me at David Knipe's request and she performed these experiments with my knowledge.

- 5. That Appendix B attached hereto are true copies, with dates deleted, of laboratory notebook pages from the notebook of Dr. Nguyen. The notebook was issued by the Dana Farber Cancer Institute and the notebook is still in the possession of the Dana Farber Cancer Institute. The dates deleted from the notebook pages are dates prior to September 25, 1990.
- 6. That I recognize the handwriting on the notebook pages as the handwriting of Dr. Nguyen.
- 7. That the notebooks were maintained in conjunction with the performance of the experiments performed by Dr. Nguyen in the United States before September 25, 1990.
- 8. That based on personal knowledge, Dr. Nguyen demonstrated, in the United States prior to September 25, 1990, that two different mutant herpesviruses protected mice against a lethal dose of wild-type herpesvirus, HSVmP. The mutant herpesviruses that provided such protection were not capable of producing additional virus in cells other than cells that complemented the defective genes. In particular, the mutated viruses used in these experiments consisted of one herpesvirus containing a deletion mutation in the gene that expresses ICP8, known as mutant d301; and the other herpesvirus containing a nonsense insertion mutation in the gene expressing ICP27, known as mutant n504R.
- 9. That the mutant herpesviruses were obtained from David Knipe with the understanding that my laboratory would perform experiments to demonstrate that such mutant viruses were protective against wild-type herpesvirus.
- 10. That the experiments performed by Dr. Nguyen in the United States prior to September 25, 1990 were as follows:
 - 10⁶ pfu of replication-defective viruses, those containing mutations in the genes encoding ICP8 or ICP27, were injected into mice, and then challenged with a lethal dose of 10⁸ pfu live wild-type HSV-1 virus. The mice that received the mutants had 100 %

survival rates whereas the control mice that did not receive mutant virus had a 10 % survival rate. Thus the experiments demonstrated that replication defective mutants of

HSV-1 induced immunity in mice injected with the mutant viruses and protected against lethal infection whereas the majority of mice injected with control material and subsequently challenged with wild type virus, died.

- 11. That the following correlates the above-described experiment to the notebook pages provided in Appendix B:
 - A. Female Balb/c mice, 5 to 7 weeks of age, were used for the experiment. These mice were injected intraperitoneally with the viruses or control samples.

This is stated on page **HOO3388**:

second line "injection mice with";

third line right side of page near the margin "n=8 Balb";

just below the middle of the page on the right across from the number 2 "n=8Balb mice".

and on page HOO3497 first and second lines where it is written

"n" refers to the number of mice in the group.

B. Viruses used in the experiment were obtained from the laboratory of Dr. David Knipe.

This is stated on page HOO3388

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top line on the left "All virus received from Dr. David Knipe _____";
fifth line: "ICP8 stock d301 _____ received from Dr. David Knipe's Lab (Kay)
on day ."
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The titer of the viruses was 1.7×10^9 pfu/cc for the ICP8 mutant virus page **HOO3388** 8th line and 4×10^8 pfu for ICP237 (n504R) on line midpage in paragraph ②.

"ICP8" refers to the replication defective mutant virus containing a mutation in the gene encoding ICP8, termed <u>d</u>301; "ICP27" refers to the replication defective mutant virus containing a mutation in the ICP27 gene, termed n504R.

C. The mutant viruses were diluted to 10⁶ pfu/cc in an injection volume per mouse of .5cc.

This is shown on page HOO3388

par.① 6^{th} line "Need 10^6 pfu/cc. so do a 1:1700 dilution that means :100 λ in 170000 = 170cc or: 100 λ (virus stock) in 85cc PBS and injection of .5cc" par.② 2^{nd} line "Need 10^6 pfu/cc: So do a 1: 4 10^2 Dilution that means 100 λ in 40000 = 40cc. PBS or 100 λ (virus) in 20cc and inject 0.5cc."

D. Groups of eight mice were injected with 10⁶ pfu of each of the replication defective mutants ICP8 (d301) and ICP27 (n504R). Control mice (group of 9 mice) were injected with PBS.

This is shown on page HOO3388

third line right side of page near the margin "n=8 Balb";

just below the middle of the page on the right across from the number 2 "n=8Balb mice".

and on page HOO3497

E. Six weeks plus 5 days later, all the mice were challenged with 10⁸ pfu of a virulent wild-type HSV-1 strain, HSV-1 (mP).

This is shown on notebook page HOO3497:

mid page: "Date deleted: challenge with 108 pfu HSV-mP."

F. Mortality was determined 10 days post challenge with HSV-1mP. As reported on notebook page HOO3487, two mice each from the groups injected with mutant virus were removed for proliferation assay studies leaving six mice per group. The mice which

had been inoculated with the mutants ICP8 (d301) or ICP27 (n504), 0 (zero) mice of six died; 1/9 control (PBS injected) mice survived, that is 8 out 9 mice died.

This is shown on the bottom half of page HOO3497 as follows:

"Mortality:

in 10 days

- (2) (ICP8) 0 died.
- (3) (ICP27) 0 died.
- (4) 8 died from 9. (control)"

12. That I hereby declare that all statements made herein are true, and all statements made on information and belief are believed to be true, and further that all statements were made with the knowledge that any willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-identified application or any patent issued thereon.

Date:

Robert Finberg

APPENDIX A

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CURRICULUM VITAE

Name:

Robert William Finberg

Address:

48 Spring Lane, Canton, Massachusetts 02021

Place of Birth:

Baltimore, Maryland

Education:

1971 A.B. University of Chicago
1974 M.D. Albert Einstein College of Medicine
1996 M.A. (Hon.) Harvard University

Postdoctoral Training:

Internship and Residencies:

1974-1975 Intern in	Medicine, Bellevue Hospital, New York
1975-1976 Junior Re	sident in Medicine, Bellevue Hospital
1976-1977 Senior Re	esident in Medicine, Bellevue Hospital
1979-1980 Fourth Y	ear Resident Physician, Peter Bent Brigham Hospital, Boston, MA

Clinical and Research Fellowships:

1977-1978	Research Fellow in Pathology, Harvard Medical School, Boston, MA
1978-1979	Research Fellow in Medicine, Harvard Medical School
1978-1979	Research/Clinical Fellow in Medicine, Peter Bent Brigham Hospital
1979-1980	Clinical Fellow in Medicine, Harvard Medical School

Licensure and Certification:

1976	Massachusetts License Registration No. 40199
1976	American Board of Internal Medicine, Candidate No. 058714
1980	Board Certified - Infectious Diseases, Candidate No. 058714

Academic Appointments:

1980-1984	Assistant Professor of Medicine, Harvard Medical School
1985-1995	Associate Professor of Medicine, Harvard Medical School
1996-Present	Professor of Medicine, Harvard Medical School
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Hospital Appointments:

Junior Associate in Medicine, Brigham & Women's Hospital, Boston, MA
Assistant Physician, Chief of Infectious Diseases.
Dana-Farber Cancer Institute, Boston, MA
Associate Physician, Brigham & Women's Hospital
Courtesy Staff, The Children's Hospital, Boston, MA
Associate Physician, Chief of Infectious Diseases.
Dana-Farber Cancer Institute
Staff Physician, The Children's Hospital
Associate Professor of Medicine, Chief of Infectious Diseases,
Dana-Farber Cancer Institute
Professor of Medicine, Chief of Infectious Diseases.
Dana-Farber Cancer Institute

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Awards and Honors:

1973	Alpha Omega Alpha
1980-1983	Hartford Foundation Award for the support of faculty in scientific
	research
1983-1988	Scholar of the Leukemia Society

Major Committee Assignments:

Government:

1984	Special Reviewer, Experimental Immunology Study Section
1985-1989	Regular Reviewer, Experimental Immunology Study Section
1990-1995	Secretarial appointee, Department of Veterans Affairs,
	Medical Research Service, Career Development Committee
1991-1994	AIDS and Special Virology and Vaccines Ad Hoc Committees
1995-7	Special Reviewer, Immunobiology Study Section

Harvard Medical School, Graduate Student Supervision:

1980-	Member, Committee on Virology
	Member, Committee on Immunology

Memberships in Professional Societies:

1974-	American Association for the Advancement of Science
1978-	American Society of Microbiology
1979-	American Association of Immunologists
1979-	American College of Physicians
1980-	American Federation for Clinical Research
1982-	Infectious Disease Society of America, Fellow
1985-	American Society for Clinical Investigation
1987-	Pediatric Infectious Disease Society
1988-	Clinical Immunological Society
1992-	Immunocompromised Host Society
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Editorial Boards:

Infection and Immunity
Infectious Disease Practice
Journal of Immunology
Survey of Immunologic Research

Major Research and Clinical Interests:

- 1.
- The importance of T cells in mammalian responses to viruses
 The regulatory role of T cells in response to bacterial infections
 GPI-Anchored Proteins as Signal transduction molecules
 HIV-1 CD4 interactions 2.
- 3.
- 4.
- Picornavirus receptors 5.
- 6. Infections in immunocompromised patients

Research Funding Information

Active

1992-2000	NIH, ROIAI31628 PI Cell Surface Proteins Involved in Echovirus Attachment
1995-1998	NIH PO1 A137963-01 Co-PI Mechanisms Involved in the Generation of Protective Immunity
1989-1999	NIH 2P30 AI28691-06 Co-PI AIDS Center Support Grant
1997-2002	NIH, RO1 AI 39576-01 Co-PI Pathogenic Mechanisms of Anacrobes in Sepsis
1995-1998	IDF International: Juvenile Diabetes PI A Virus Induced Autoimmune Disease
1998-2001	Novartis Drug Discovery Program PI Role of Bcl-2/x viral homologues in epithelial maligancies
Expired	
1996-1997	Aronex: A randomized trial of liposomal nystatin versus amphotericin B PI
1994-1996	Fujisawa: A randomized trial of Ambisome versus amphotericin B PI
1995-1996	Omnibus Solicitation: PHS SBIR, PHS 95-3 PI Virus Inactivation in Blood Using Microwave Heating
1995-1996	Women's Breast Cancer Program PI G Proteins and GPI-Anchored Surface Proteins in Tumor Cells
1995-1 99 7	Fujisawa, USA PI Trial: Ambisome vs. Amphotericin B

1992-1996	NIH, P01 A133087 Co-PI Clinical and Laboratory Studies of PID
1994-1995	DFCI Drug Discovery Program PI D2: A Signal Transducing Molecule Present on Tumor Cells
1994-1995	Barr Program Small Grants PI Characterization of Receptor Proteins for Diabetogenic Viruses
1991-1994	NIH, NO1-DE-12585 (subcontract) Co-PI Role of Mononuclear Phagocytes in Opportunistic Infections of Oral Mucosa and Other Tissues in AIDS Patients
1992-1993	Seragen, Inc. PI IL-2 toxin and immune responses
1992-1995	American Heart Association #92013820 PI Cell Surface Proteins Involved in Echovirus Attachment
1983-1993	NIH, ROICA3479 PI Animal Models of AIDS
1982-1993	NIH, RO1AI20382 PI Cell Mediated Immune Response to Murine Viruses
1990-1993	NIH 1R01AI29657-02 Opioids and Opiates: T Cell Motility
1989-1990	Massachusetts Mutual Life Insurance Company PI A Study on the Measurement of Immune Responses to the AIDS Virus in Children
1987-1990	DAMD-87-C-7151 PI Analysis of the Human T cell Response to HTLV-III
1990-1991	DFCI Center for AIDS Research PI Resistance of Human T Cells to HIV-1 Infection
1989-1990	Seragen, Inc. PI Effects of IL-2 Toxin on HIV-1 Infection of Cells
1990-1991	Scragen, Inc. PI Use of DAB486 IL-2 to Eliminate HIV-1 Infected Cells
1990-1991	DFCI Center for AIDS Research CPF: An HIV-1 Binding Peptide
1984-1989	5R01 AI20541 PI

Immune Regulation by Cytotoxic T Cell Clones

Use of T Cell Hybridomas in Infection

Analysis of T-Cell Responses to AIDS

AmFAR, Grant No. 00104

LSA Scholar PI

1983-1988

1986-1987

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1985-1987	Serono Laboratorics PI Effect of Thymic-derived Lymphokines on T Cell Responses and Infections in Bone Marrow Transplant Patients
1985-1986	Whittaker Foundation PI Cloning and Genomic Analysis of a Receptor Molecular from an Ag Specific T Cell Hybridoma
1983-1985	Biogen, Inc. PI Investigation of T cells in Patients with AIDS
1980-1985	Hartford Foundation PI Award for Junior Faculty
1980-1992	NIH, 5R01 AI20382 PI Cell Mediated Immune Response to Murine Viruses

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Pending

1998-2003	NIH, ROI GM57520 LPS Mediated Endotoxic	PI Shock: Mechanisms of Pathogenesis	
1997-1999	Pfizer, Inc A randomised trial of Vo	riconazole versus amphotericin B	Ιq

Principal Clinical and Hospital Service Responsibilities:

1980-	Attending in Medicine and Infectious Diseases, Brigham & Women's
	Hospital
1980-	Consultant in Infectious Diseases, Children's Hospital, Boston, MA
1982-	Chief, Infectious Diseases, Dana-Farber Cancer Institute

Teaching Experience:

Classroom:

1980, 83-84	Pathophysiology 902 conference leader, Harvard Medical School
1981-1982	Immunology 700 lecturer, Harvard Medical School
1986	Tutor, New Pathway, Harvard Medical School
1987	Lecturer, Immunobiology 204, Harvard School of Public Health, Boston, MA
1987-1990	Tutor, Identify and Defense, New Pathway, Harvard Medical School
1990-1992	Case Coordinator for Immunology and Microbiology
1001 1000	Harvard Medical School
1991-1992	Lecturer, Virology 314, Harvard Medical School
1991-	Member, Advanced Basic Science Committee
1993-	Senior Fellow for ABS, Harvard Medical School
1992-	Modern Medical Microbe Hunters (IN505.J), course director
1992-	Interactions of Viruses with Mamalian Cells (ME551.5), course director

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Clinical:

1980-1981	Consult visit in Infectious Disease, Brigham & Women's Hospital
1981-	Consult visit in Infectious Disease, Dana-Farber Cancer Institute
1981-	Ward visit in Medicine, Brigham & Women's Hospital
1983-	Consult visit in Infectious Disease, The Children's Hospital
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Original Reports:

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- 2. Burakoff SJ, Finberg R, Glimcher L, Lemonnier F, Benacerraf B, Cantor H. The biologic significance of alloreactivity. The ontogeny of T-cell sets specific for alloantigens or modified self antigens. J Exp Med. 1978;148:1414-22.
- 3. Finberg R, Mescher M, Burakoff SJ. The induction of virus-specific cytotoxic T lymphocytes with solubilized viral and membrane proteins. J Exp Med. 1978;148:1620-7.
- 4. Finberg R, Burakoff SJ, Cantor H, Benacerraf B. Biological significance of alloreactivity: T cells stimulated by Sendai virus-coated syngeneic cells specifically lyse allogeneic target cells. Proc Natl Acad Sci. USA. 1978;75:5145-9.
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- 7 Finberg R, Burakoff SJ, Benacerraf B, Greene MI. The cytolytic T lymphocyte response to trinitrophenyl-modified syngeneic cells. II. Evidence for antigen-specific suppressor T cells.J Immunol. 1979; 123:1210-4.
- 8. Finberg R, Cantor H, Benacerraf B, Burakoff S. The origins of alloreactivity: differentiation of prekiller cells to viral infection results in alloreactive cytolytic T lymphocytes. J Immunol. 1980;124(4):1858-60.
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- 19. Sy M-S, Lee SH, Tsurufuji M, Rock KL, Benacerraf B, Finberg R. Two distinct mechanisms regulate the *in vivo* generation of cytotoxic T cells. J Exp Med. 1982;156:918-23.
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- 43. Sharpe AH, Gaulton GN, Ertl HCJ, Finberg RW, McDade KK, Fields BN, Greene MI. Cell receptors for the mammalian reovirus. IV. Reovirus-specific cytolytic T cell lines that have idiotypic receptors recognize anti-idiotypic B cell hybridomas. J Immunol. 1985;134:2702-6.
- 44. Zaleznik DF, Finberg RW, Shapiro ME, Onderdonk AB, Kasper DL. A soluble suppressor T cell factor protects against experimental intraabdominal abscesses. J Clin Invest. 1985;75:1023-7.
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 J Clin Oncol. 1986;4:646-54.
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vid glide! All vins received from Dr. David Knipe.

Vinjection Mice with:

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